



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Mui et al.
Assignee: ZiLOG, Inc.
Title: "Use of Remote Controls for Audio-Video Equipment to Control Other Devices"
Serial No.: 09/655,733 Filed: September 6, 2000
Patent No.: 7,042,366 B1 Issued: May 9, 2006
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Atty. Doc. No.: ZIL-237

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May 15, 2006

REQUEST FOR CERTIFICATE OF CORRECTION

Certificate
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of Correction

Pursuant to 37 CFR 1.322, Applicants request that the Director issue a certificate of correction to correct a mistake in the printing of the above-identified patent incurred through the fault of the Patent Office. A typographical mistake in the printing of claim 6 is clearly apparent when the attached page of USP 7,042,366 (marked to show the mistake) is compared to the attached page 9 of the Listing of Claims that were submitted on May 17, 2005, as part of a revised Appeal Brief.

Text of the requested correction is submitted on the one attached page of Certificate of Correction form, PTO/SB/44.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: ATTN: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By

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Date of Deposit: May 15, 2006

Respectfully submitted,

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video device, without the manufacturer of the device having to supply a remote control. However, if that same remote is used to control the TV, VCR or other audio-video equipment within its range that may be selected by pushing the appropriate remote button, the universal receiver 57 of the other device 27 will also respond, as described above.

Although the various aspects of the invention have been described with respect to specific exemplary embodiments, it will be understood that the invention is entitled to protection within the full scope of the appended claims.

It is claimed:

1. Apparatus other than audio-video equipment, comprising:

- a photo-detector adapted to receive infra-red radiation and generate an output signal,
- a memory simultaneously storing a plurality of records that individually contain characteristics of a different one of a plurality of infra-red signal pattern protocols emitted by a plurality of different types of remote controls of audio-video equipment, the individual records additionally including a link within the record of one or more signal patterns emitted by one of the remote controls with at least one specific function,
- a signal decoder connected to receive the photo-detector output and to first identify a match between the signal pattern protocols of one of the stored records and then to identify a match between a pattern of the output signal and one of the signal patterns stored in the identified record for generating a control signal corresponding to the specific function to which the matched signal pattern is linked within the identified record, and
- a component of said apparatus other than audio-video equipment connected to receive the control signal and perform the specific function.

2. Apparatus according to claim 1, wherein the apparatus component includes a sound source and the specific function controls the sound source.

3. Apparatus according to claim 2, wherein the specific audio-video function of the matched signal pattern includes muting the sound of audio-video equipment and the specific function includes muting the sound source of said apparatus other than audio-video equipment.

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4. Apparatus according to claim 2, wherein the specific audio-video function of the matched signal pattern includes raising or lowering the sound level of audio-video equipment and the specific function includes raising or lowering the level of the sound source of said apparatus other than audio-video equipment.

5. Apparatus according to any one of claims 1-4, wherein said apparatus other than audio-video equipment is installed within a toy.

6. A method of remotely controlling a device other than audio-video equipment to perform one or more functions, comprising:

simultaneously storing a plurality of records in the device other than audio-video equipment of characteristics of signals emitted by a plurality of different types of remote controls of audio-video equipment, the individual records storing one or more signal patterns that are individually linked within the record with one of the one or more functions to be performed by the device, before comparing the signal received by the device from the remote control with the signal patterns of any of the records, comparing a signal received by the device from one of the different types of remote controls with the records stored in the device to identify one of the records corresponding to the type of remote control emitting the received signal,

thereafter comparing the signal received by the device from the remote control with the one or more signal patterns within the identified record in order to identify a signal pattern within the identified record having that of the received signal, and

executing one of the one or more functions in the device that is linked in the identified record with the identified signal pattern.

7. The method of claim 6, wherein the device other than audio-video equipment is installed within a toy.

8. The method of claim 7, wherein the one or more functions of the device other than audio-video equipment includes control of a sound generator therein.

* * * * *

28. Apparatus according to any one of claims 24 – 27, wherein said apparatus other than audio-video equipment is installed within a toy.

29. A method of remotely controlling a device other than audio-video equipment to perform one or more functions, comprising:

simultaneously storing a plurality of records in the device other than audio-video equipment of characteristics of signals emitted by a plurality of different types of remote controls of audio-video equipment, the individual records storing one or more signal patterns that are individually linked within the record with one of the one or more functions to be performed by the device,

before comparing the signal received by the device from the remote control with the signal patterns of any of the records, comparing a signal received by the device from one of the different types of remote controls with the records stored in the device to identify one of the records corresponding to the type of remote control emitting the received signal,

thereafter comparing the signal received by the device from the remote control with the one or more signal patterns within the identified record in order to identify a signal pattern within the identified record having that of the received signal, and

executing one of the one or more functions in the device that is linked in the identified record with the identified signal pattern.

30. The method of claim 29, wherein the device other than audio-video equipment is installed within a toy.

31. The method of claim 30, wherein the one or more functions of the device other than audio-video equipment includes control of a sound generator therein.

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PATENT NO. : 7,042,366 B1

APPLICATION NO.: 09/655,733

ISSUE DATE : May 9, 2006

INVENTOR(S) : Mui et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8, line 29, "patters" should be changed to --patterns--.
Lines 27-31 of claim 6 should read:

thereafter comparing the signal received by the device
from the remote control with the one or more signal
patterns within the identified record in order to identify
a signal pattern within the identified record having that
of the received signal, and

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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